



DEPARTMENT OF THE NAVY

NAVAL AIR STATION OCEANA
1750 TOMCAT BOULEVARD
VIRGINIA BEACH, VIRGINIA 23460-2191

NASOCEANAINST 3740.2F IN REPLY REFER TO:

30

05 JAN 2000

NAS OCEANA INSTRUCTION 3740.2F

Subj: PROCEDURES FOR DESIGNATION OF FUNCTIONAL CHECKFLIGHT
PILOTS (FCFP) FOR THE SH-3H/UH-3H HELICOPTER

Ref: (a) OPNAVINST 3710.7R
(b) OPNAVINST 4790.2G
(c) NAVAIR 01-230-HLH-1 NATOPS Flight Manual, SH-3H/UH-3H
Helicopter
(d) NAVAIR 01-230-HLH-1F NATOPS Functional Checkflight
Checklist, Navy Model SH-3H/UH-3H Helicopter

Encl: (1) FCFP Required Reading List
(2) SH-3H/UH-3H FCFP Ground and Flight Training Syllabus
(3) Recommendation for SH-3H/UH-3H FCFP Designation

1. Purpose. To establish standard training requirements and approved procedures for designation of Functional Checkflight Pilots (FCFP) per references (a) through (d).

2. Cancellation. NASOCEANAINST 3740.2E. Because of numerous revisions, paragraph markings have been omitted.

3. Discussion. In order to perform functional checkflights, it is necessary to qualify and designate selected pilots as FCFPs. The FCFP Training Program established herein is designed to meet the requirements set in references (a) through (d).

4. Action. Aviators selected for FCFP training shall successfully complete the following prior to designation as FCFP:

a. Be a highly motivated, currently designated Helicopter Aircraft Commander (HAC) at Naval Air Station (NAS) Oceana in the SH-3H/UH-3H and have outstanding knowledge of aircraft systems.

b. Complete the FCFP Required Reading List and FCFP Ground and Flight Training Syllabus, enclosures (1) and (2), as established in this instruction. Receive Vibration Analysis Test Set (VATS) ground training from qualified operator.

c. Pilots with SH-3H/UH-3H FCFP experience within the previous six months of reporting to NAS Oceana shall complete the Required Reading List and co-pilot a full functional checkflight.

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d. Satisfactorily complete the open book FCF examination administered by the Quality Assurance Officer (QAO).

e. Complete a full functional qualification checkflight with the QAO, Maintenance Officer (MO) or senior FCFP. This can be flown in conjunction with an actual FCF.

f. Be recommended to the Air Operations Officer in Charge using enclosure (3).

5. Responsibility

a. The Quality Assurance Officer shall:

(1) Manage the FCFP Training Program

(2) Review all crew qualifications prior to making recommendations for designation as FCFP

(3) Establish an ongoing training program for all FCFPs to include current problem areas, new procedures and techniques and review procedures to ensure standardization

(4) Maintain liaison with Flight Support to coordinate FCFP flight training

(5) Ensure a sufficient number of qualified FCFPs are maintained to meet station requirements

(6) Maintain file copies of all FCF Ground and Flight Training Syllabus paperwork and designation letters

(7) Ensure only designated FCFPs and VATS certified FCF crewmen conduct ground and flight training for FCFP candidates

b. The NATOPS Officer shall ensure the completed designation letter is filed in the pilot's NATOPS training jacket and appropriate entries are made in the aviator's logbook.

c. The Maintenance Officer shall:

(1) Brief all prospective candidates on the requirements for designation as FCFP

(2) Recommend only designated HACs for the FCFP Program to the Officer in Charge of Air Operations

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d. Subsequent to approval of enclosure (3), the Officer in Charge of Air Operations shall designate FCFPs in writing.



W. C. ZOBEL

Distribution:
NASOCEANAINST 5216.1U
List I (11, 30 and 00L only) (Case A)

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FCFP REQUIRED READING LISTINITIALS

- _____ 1. OPNAVINST 3710.7R, (section 3.8)
- _____ 2. OPNAVINST 4790.2G, Vol. I, (section 12.1.4)
- _____ 3. NAVAIR 01-230HLH-1 NATOPS Flight Manual, SH-3H/UH-3H
 - _____ a. Chapter 4, Operating Limitations
 - _____ b. Chapter 10, Functional Checkflight Procedures
 - _____ c. Chapter 12, Emergency Procedures
- _____ 4. Applicable AOMD Maintenance Instructions
- _____ 5. NAVAIR 01-230HLH-2-2.1 - Emergency Fuel Shutoff; WP 014, pg. 1-3
- _____ 6. NAVAIR 01-230HLH-2-2.1.1
 - _____ a. Engine Overspeed Governor System; WP 036 01, pg. 1-3
 - _____ b. Engine Start and Ignition System; WP 038 pg. 1-7
 - _____ c. Torque Indicating System; WP 039, pg. 1-12
 - _____ d. Flight Control System (Mechanical); WP 043, pg. 1-5
 - _____ e. Primary and Auxiliary Hydraulics; WP 044, pg. 1-9
 - _____ f. Utility Hydraulics; WP 045, pg. 1-2
 - _____ g. Pitot-Static System; WP 052, pg. 1-6
 - _____ h. Accessory Drive; WP 05501, pg. 1-3
 - _____ i. Vibration Analysis and Troubleshooting; WP 056, pg. 1-10
 - _____ j. Emergency Engine Control System; WP 060, pg. 1-6
- _____ 7. NAVAIR 01-230HLH-2-1.1 - Engine Overspeed Governor System, WP 047 01, pg. 1-2

Enclosure (1)

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- _____ 8. NAVAIR 01-230HLH-2-3.1 - Organizational Maintenance Limits; WP 010, pg. 1-18
- _____ 9. NAVAIR 01-230HLH-2-3.9 - Auto RPM Adjustment; WP 018, pg. 26-27
- _____ 10. NAVAIR 01-230HLH-2-3.10 - Rotary Wing Blade Tracking; WP 005, pg. 1-10 and WP 006, pg. 1-14
- _____ 11. NAVAIR 01-1A-24 - Vibration Analysis, Chapters 1 and 8
- _____ 12. NAVAIR 01-230HLH-1F NATOPS Functional Checkflight Checklist, NAVY Model SH-3H/UH-3H Helicopter

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SH-3H/UH-3H FCFP GROUND AND FLIGHT TRAINING SYLLABUS

NAME/RANK _____

SSN _____

The following flights must be completed prior to recommendation for designation as a SH-3H/UH-3H Functional Check Pilot. Flights 1 through 4 may be flown in any order. Flight 5 may be flown only after the completion of all other syllabus flights and after the successful completion of the open book SH-3H/UH-3H FCFP examination. The check flight shall be conducted by the Quality Assurance Officer, Maintenance Officer or Senior FCF Pilot.

| <u>GROUND TRAINING</u> | <u>DATE COMPLETED</u> | <u>INSTRUCTOR</u> | <u>INITIALS</u> |
|-------------------------------------------|-----------------------|-------------------|-----------------|
| 1. FCF REQUIRED READING | _____ | _____ | _____ |
| 2. VIBRATION ANALYSIS TESTING TRAINING | _____ | _____ | _____ |

| <u>TYPE FLIGHT</u> | <u>DATE COMPLETED</u> | <u>INSTRUCTOR</u> | <u>INITIALS</u> |
|---------------------------------------------|-----------------------|-------------------|-----------------|
| 1. Controllability (Profile B,D,E) | _____ | _____ | _____ |
| 2. Vibration Analysis/ Track and Balance | _____ | _____ | _____ |
| 3. Engine Rigging (Profile C) | _____ | _____ | _____ |
| 4. Full Functional (Profile A) | _____ | _____ | _____ |
| 5. Full Functional Check Ride | _____ | _____ | _____ |

When completed, this form shall be maintained by the QAO.

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Date: _____

From: Quality Assurance Officer
To: Officer in Charge, Air Operations Detachment
Via: Air Operations Maintenance Officer

Subj: RECOMMENDATION FOR SH-3H/UH-3H FUNCTIONAL CHECKFLIGHT
PILOT DESIGNATION

Ref: (a) OPNAVINST 3710.7R
(b) OPNAVINST 4790.2G
(c) NAVAIR 01-230-HLH-1 SH-3H/UH-3H NATOPS Flight Manual

1. _____
(Rank, Name, First, MI, Last, USN/USNR, SSN)
has successfully completed the training requirements for SH-3H/
UH-3H FCFP designation as required by references (a) through (c).
2. Recommend designation.

Date: _____

FIRST ENDORSEMENT

From: Maintenance Officer
To: Officer in Charge, Air Operations Detachment

1. Forwarded, recommending approval/disapproval.
- _____